

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently amended) A connector apparatus for securing a printed circuit board to supporting apparatus comprising
a body member formed of molded polymer with upper and lower surfaces;
a metal insert captured by said body member which presents an internally threaded opening extending into said body member from said upper surface; and
a plurality of at least three rigid, parallel, cantilevered pins captured by said molded polymer and extending from said body member lower surface and disposed radially outward with respect to said threaded opening; and
an axial projection, formed as a part of said body member, extending parallel to said pins and having a length which establishes the separation between said connector body member and a board on which said connector apparatus is mounted when said projection engages said board.

Cancel claims 2, 3, and 4.

5. (Currently amended) The connector apparatus of claim 4 1 wherein said means carried by said connector comprises an axial projection, formed as part of said body member, and extending parallel to said pins, wherein said axial projection engages a depression in said board to effect the alignment of said connector with respect to said board.

Cancel claims 6, 7, and 8.

9. (Currently amended) The connector apparatus of claim 2 17 wherein said pins are captured by said molded polymer and extend from said lower surface and said body member molded polymer is an electrically conducting material which provides an electrically conductive path between said pins and said threaded metal insert.

Cancel claim 10.

11. (Currently amended) A circuit board including connector structure for attachment to supporting apparatus comprising

a circuit board;

a polymer connector body portion with an upper surface facing away from said circuit board and a lower surface which confronts said circuit board;

a metal sleeve insert captured in said polymer body portion presenting an axially extending internally threaded opening extending into said polymer body portion from said upper surface;

~~a central threaded opening extending into said connector body upper surface;~~

a plurality of rigid, parallel, cantilevered pins having end portions encapsulated and retained by said polymer body portion, disposed radially outward with respect to said metal insert secured to said connector body portion and extending to said circuit board;

a like plurality of via openings in extending through said circuit board which are aligned with and into which said pin cantilevered ends respectively extend;

means for limiting penetration of said connector pin cantilevered ends into said circuit board via openings, whereby when the connector structure is assembled to said circuit board with said cantilevered pins positioned in said circuit board vias, said body portion is spaced from said circuit board; and

solder means securing said pin cantilevered ends respectively in said plurality of circuit board via openings.

Cancel claims 12 through 16.

17. (Currently amended) A connector apparatus for securing a printed circuit board to supporting apparatus comprising

a body member with upper and lower surfaces formed as a molded polymer;
an internally threaded surface extending into said body member from said upper surface thereof;

a metal insert captured by said body member molded polymer with said internally threaded formed as an internal threaded surface within said metal insert:

said metal insert including an irregular outer surface which engages said body member polymer to resist extraction of said metal insert from said molded polymer body member and rotation of said metal insert with respect to said molded polymer body member; and

a plurality of rigid, parallel, cantilevered pins secured to said body member and extending perpendicular to said lower surface in the direction opposite the direction to which said internally threaded surface opens.

Cancel claims 18 and 19.

20. (Currently amended) The connector apparatus of claim ~~19~~ 17 wherein said cantilevered pins are formed of metal with an end portion captured within said molded polymer body member.

21. (Original) The connector apparatus of claim 20 wherein said cantilevered pins include irregular surfaces within said molded polymer body member and are positioned radially outward with respect to said metal insert.

Cancel claim 22.